

WEST[Help](#)[Logout](#)[Interrupt](#)[Main Menu](#) [Search Form](#) [Posting Counts](#) [Show 8 Numbers](#) [Edit 8 Numbers](#) [Preferences](#) [Cases](#)**Search Results -**

| Term | Documents |
|---|-----------|
| PHASE.DWPI,TDBD,EPAB,JPAB,USPT. | 1271050 |
| PHASES.DWPI,TDBD,EPAB,JPAB,USPT. | 239685 |
| CHANGE.DWPI,TDBD,EPAB,JPAB,USPT. | 1570011 |
| CHANGES.DWPI,TDBD,EPAB,JPAB,USPT. | 1383647 |
| (1 AND (PHASE ADJ CHANGE)).USPT,JPAB,EPAB,DWPI,TDBD. | 1 |
| (PHASE CHANGE AND L1).USPT,JPAB,EPAB,DWPI,TDBD. | 1 |

Database:

US Patents Full Text Database
 US Pre-Grant Publication Full-Text Database
 JP2000 Abstracts Database
 EP2000 Abstracts Database
 Derwent World Patents Index
 IBM Technical Disclosure Bulletins

Search:

L3

Refine Search

Recall Text

Clear

Search History

DATE: Sunday, April 27, 2003 [Printable Copy](#) [Create Case](#)

Set Name Query
side by side

Hit Count Set Name
result set

DB=USPT,JPAB,EPAB,DWPI,TDBD; PLUR=YES; OP=ADJ

| | | | |
|-----------|--|-----|-----------|
| <u>L1</u> | davis-dan\$.in. or hart-ronald\$.in. or work-dale\$.in. or virgallito-david\$.in. | 102 | <u>L1</u> |
| <u>L2</u> | (microcapsule or encapsulat\$3 or microencapsulate\$ or macrocapsule) and L1 | 14 | <u>L2</u> |
| <u>L3</u> | phase change and L1 | 1 | <u>L3</u> |

END OF SEARCH HISTORY

WEST[Generate Collection](#)[Print](#)**Search Results - Record(s) 1 through 10 of 14 returned.** 1. Document ID: US 5911923 A

L2: Entry 1 of 14

File: USPT

Jun 15, 1999

US-PAT-NO: 5911923

DOCUMENT-IDENTIFIER: US 5911923 A

** See image for Certificate of Correction **

TITLE: Method for microencapsulating water-soluble or water-dispersible or water-sensitive materials in an organic continuous phase

DATE-ISSUED: June 15, 1999

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|-----------------------------|-------------|-------|----------|---------|
| <u>Work; Dale E.</u> | London | OH | | |
| <u>Hart; Ronald L.</u> | Xenia | OH | | |
| <u>Virgallito; David R.</u> | Beavercreek | OH | | |

US-CL-CURRENT: 264/4.7; 427/213.34, 427/213.36[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#) [Claims](#) [RQMC](#) [Draw Desc](#) [Image](#) 2. Document ID: US 5885234 A

L2: Entry 2 of 14

File: USPT

Mar 23, 1999

US-PAT-NO: 5885234

DOCUMENT-IDENTIFIER: US 5885234 A

TITLE: Orthopedic casting material having improved wet strength

DATE-ISSUED: March 23, 1999

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|----------------------------|-----------|-------|----------|---------|
| <u>Sandvig; Timothy C.</u> | Woodville | WI | | |
| <u>Ersfeld; Dean A.</u> | Maplewood | MN | | |
| <u>Davis; Daniel W.</u> | Hugo | MN | | |
| <u>Gotz; Steven H.</u> | Woodbury | MN | | |

US-CL-CURRENT: 602/8; 602/6[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#) [Claims](#) [RQMC](#) [Draw Desc](#) [Image](#) 3. Document ID: US 5828576 A

L2: Entry 3 of 14

File: USPT

Oct 27, 1998

US-PAT-NO: 5828576
 DOCUMENT-IDENTIFIER: US 5828576 A
 ** See image for Certificate of Correction **

TITLE: Power monitor apparatus and method with object oriented structure

DATE-ISSUED: October 27, 1998

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|------------------------|----------|-------|----------|---------|
| Loucks; Gregory R. | Sidney | | | CA |
| Ki; Chuen Shan Simon | Victoria | | | CA |
| Ransom; Douglas S. | Victoria | | | CA |
| Dravnieks; Olaf O.W. | Victoria | | | CA |
| Chivers; David A. | Victoria | | | CA |
| Teachman; Michael E. | Victoria | | | CA |
| <u>Hart; Ronald G.</u> | Victoria | | | CA |

US-CL-CURRENT: 702/65; 324/118, 324/119, 324/142, 340/3.51, 703/18, 717/123

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#)

[R&D](#) | [Draw Desc](#) | [Image](#)

4. Document ID: US 5800899 A

L2: Entry 4 of 14

File: USPT

Sep 1, 1998

US-PAT-NO: 5800899
 DOCUMENT-IDENTIFIER: US 5800899 A

TITLE: Orthopedic casting material having improved wet strength

DATE-ISSUED: September 1, 1998

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|-------------------------|-----------|-------|----------|---------|
| Sandvig; Timothy C. | Woodville | WI | | |
| Ersfeld; Dean A. | Maplewood | MN | | |
| <u>Davis; Daniel W.</u> | Hugo | MN | | |
| Gotz; Steven H. | Woodbury | MN | | |

US-CL-CURRENT: 428/96; 428/92, 442/1, 442/180, 442/304, 602/8

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#)

[R&D](#) | [Draw Desc](#) | [Image](#)

5. Document ID: US 5650936 A

L2: Entry 5 of 14

File: USPT

Jul 22, 1997

US-PAT-NO: 5650936
 DOCUMENT-IDENTIFIER: US 5650936 A
 ** See image for Certificate of Correction **

TITLE: Power monitor apparatus and method with object oriented structure

DATE-ISSUED: July 22, 1997

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|------------------------|----------|-------|----------|---------|
| Loucks; Gregory R. | Sidney | | | CA |
| Ki; Chuen Shan Simon | Victoria | | | CA |
| Ransom; Douglas S. | Victoria | | | CA |
| Dravnieks; Olaf O. W. | Victoria | | | CA |
| Chivers; David A. | Victoria | | | CA |
| Teachman; Michael E. | Victoria | | | CA |
| <u>Hart; Ronald G.</u> | Victoria | | | CA |

US-CL-CURRENT: 702/62; 324/118, 324/119, 324/142, 707/1, 713/340

| | | | | | | | | | | | | |
|----------------------|-----------------------|--------------------------|-----------------------|------------------------|--------------------------------|----------------------|---------------------------|---------------------------|-----------------------------|---------------------|---------------------------|-----------------------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KMC | Draw Desc | Image |
|----------------------|-----------------------|--------------------------|-----------------------|------------------------|--------------------------------|----------------------|---------------------------|---------------------------|-----------------------------|---------------------|---------------------------|-----------------------|

 6. Document ID: US 5435376 A

L2: Entry 6 of 14

File: USPT

Jul 25, 1995

US-PAT-NO: 5435376

DOCUMENT-IDENTIFIER: US 5435376 A

** See image for Certificate of Correction **

TITLE: Flame resistant microencapsulated phase change materials

DATE-ISSUED: July 25, 1995

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|------------------------|--------|-------|----------|---------|
| <u>Hart; Ronald L.</u> | Dayton | OH | | |
| <u>Work; Dale E.</u> | Dayton | OH | | |

US-CL-CURRENT: 165/10; 165/47

| | | | | | | | | | | | | |
|----------------------|-----------------------|--------------------------|-----------------------|------------------------|--------------------------------|----------------------|---------------------------|---------------------------|-----------------------------|---------------------|---------------------------|-----------------------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KMC | Draw Desc | Image |
|----------------------|-----------------------|--------------------------|-----------------------|------------------------|--------------------------------|----------------------|---------------------------|---------------------------|-----------------------------|---------------------|---------------------------|-----------------------|

 7. Document ID: US 5008133 A

L2: Entry 7 of 14

File: USPT

Apr 16, 1991

US-PAT-NO: 5008133

DOCUMENT-IDENTIFIER: US 5008133 A

** See image for Certificate of Correction **

TITLE: Method of coating a web with a coating mixture including microcapsules crushed by a back-up member

DATE-ISSUED: April 16, 1991

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|------------------------|--------|-------|------------|---------|
| Herbet; Albert J. | Oxford | OH | 45056 | |
| <u>Hart; Ronald L.</u> | Xenia | OH | 45385-9525 | |
| <u>Work; Dale E.</u> | London | OH | 43140 | |

US-CL-CURRENT: 427/333; 427/356

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#)[HTML](#) [Draw Desc](#) [Image](#) 8. Document ID: US 4536524 A

L2: Entry 8 of 14

File: USPT

Aug 20, 1985

US-PAT-NO: 4536524

DOCUMENT-IDENTIFIER: US 4536524 A

TITLE: Microencapsulated epoxy adhesive system

DATE-ISSUED: August 20, 1985

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|------------------------|---------|-------|----------|---------|
| <u>Hart, Ronald L.</u> | Xenia | OH | | |
| <u>Work, Dale E.</u> | London | OH | | |
| <u>Davis, Colin E.</u> | Portage | MI | | |

US-CL-CURRENT: 523/176; 156/330, 411/258, 428/402.21, 523/211, 523/406[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#)[HTML](#) [Draw Desc](#) [Image](#) 9. Document ID: US 4464434 A

L2: Entry 9 of 14

File: USPT

Aug 7, 1984

US-PAT-NO: 4464434

DOCUMENT-IDENTIFIER: US 4464434 A

** See image for Certificate of Correction **

TITLE: Microencapsulated alkaloidal material and method of producing same

DATE-ISSUED: August 7, 1984

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|------------------------|----------|-------|----------|---------|
| <u>Davis, Danny A.</u> | Casstown | OH | | |

US-CL-CURRENT: 428/402.22; 131/352, 131/369, 264/4.3, 424/497, 426/89, 427/213.33,
428/402.24[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#)[HTML](#) [Draw Desc](#) [Image](#) 10. Document ID: US 4377621 A

L2: Entry 10 of 14

File: USPT

Mar 22, 1983

US-PAT-NO: 4377621

DOCUMENT-IDENTIFIER: US 4377621 A

TITLE: Hydrolyzed ethylene vinyl acetate encapsulating coating

DATE-ISSUED: March 22, 1983

INVENTOR-INFORMATION:

WEST

[Generate Collection](#)[Print](#)

Search Results - Record(s) 11 through 14 of 14 returned.

 11. Document ID: US 4195645 A

L2: Entry 11 of 14

File: USPT

Apr 1, 1980

US-PAT-NO: 4195645

DOCUMENT-IDENTIFIER: US 4195645 A

TITLE: Tobacco-substitute smoking material

DATE-ISSUED: April 1, 1980

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|------------------------|----------------|-------|----------|---------|
| Bradley, Jr.; Hubert | Matthews | NC | | |
| Bayless; Robert G. | Yellow Springs | OH | | |
| <u>Hart; Ronald L.</u> | Xenia | OH | | |
| <u>Davis; Danny A.</u> | Casstown | OH | | |

US-CL-CURRENT: 131/337; 264/4.3, 428/17, 428/402.2, 428/402.22, 428/403, 428/407[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#)[RIMC](#) [Drawn Desc](#) [Image](#) 12. Document ID: US 3755190 A

L2: Entry 12 of 14

File: USPT

Aug 28, 1973

US-PAT-NO: 3755190

DOCUMENT-IDENTIFIER: US 3755190 A

TITLE: CAPSULE MANUFACTURE

DATE-ISSUED: August 28, 1973

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|------------------------|----------------|-------|----------|---------|
| <u>Hart; Ronald L.</u> | Dayton | OH | | |
| Emrick; Donald D. | Kettering | OH | | |
| Bayless; Robert G. | Yellow Springs | OH | | |

US-CL-CURRENT: 427/213.34; 264/4, 264/4.7, 424/497, 428/402.22, 428/402.24[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#)[RIMC](#) [Drawn Desc](#) [Image](#) 13. Document ID: EP 67021 A1

L2: Entry 13 of 14

File: EPAB

Dec 15, 1982

PUB-NO: EP000067021A1

DOCUMENT-IDENTIFIER: EP 67021 A1

TITLE: Hydrolyzed ethylene vinyl acetate polymer and microcapsule.

PUBN-DATE: December 15, 1982

INVENTOR-INFORMATION:

NAME

COUNTRY

HART, RONALD L

WORK, DALE E

DAVIS, DANIEL

BAYLESS, ROBERT G

US-CL-CURRENT: 525/56

INT-CL (IPC): C08F 8/12

EUR-CL (EPC): C08F008/12

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#)

[KMC](#) [Draw Desc](#) [Image](#)

14. Document ID: EP 63475 A1

L2: Entry 14 of 14

File: EPAB

Oct 27, 1982

PUBN-NO: EP000063475A1

DOCUMENT-IDENTIFIER: EP 63475 A1

TITLE: Microencapsulated epoxy adhesive system.

PUBN-DATE: October 27, 1982

INVENTOR-INFORMATION:

NAME

COUNTRY

HART, RONALD L

WORK, DALE E

DAVIS, COLIN E

US-CL-CURRENT: 528/124

INT-CL (IPC): C09J 3/16; C08G 59/18

EUR-CL (EPC): C08J003/24; C09J163/00, F16B039/22

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#)

[KMC](#) [Draw Desc](#) [Image](#)

[Generate Collection](#)

[Print](#)